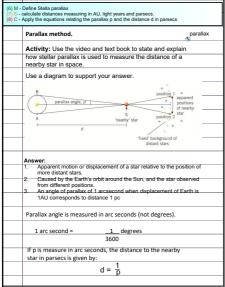


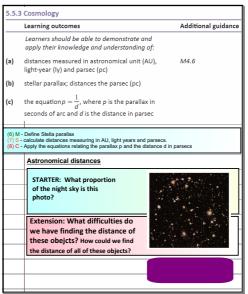
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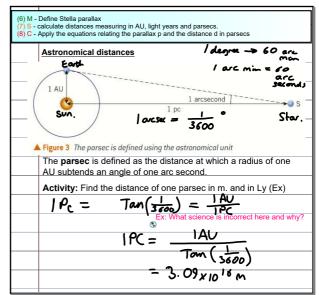
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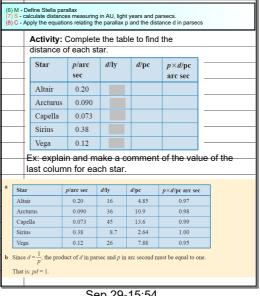
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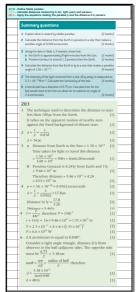
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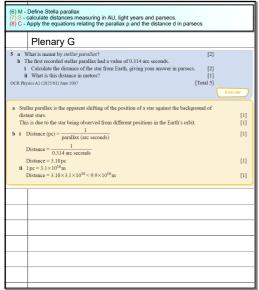
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(6) M - Define Stella parallax (7) S - calculate distances measuring in AU, light years and parsecs. (8) C - Apply the equations relating the parallax p and the distance d in parsecs
Mini plenary
Antares is a red giant and one of the brightest stars in the night sky. The parallax angle for this star is $0.0059~\rm arc$ seconds.
Calculate its distance in light years from us. 1 pc = 3.26 ly
distance =ly [2]
Answer: (parallax = 1/ <i>d</i>) $d = 0.0059^{-1} \text{ (pc = 169 .49 pc)}$
distance = 0.0059 ⁻¹ × 3.26 distance = 550 ly
Marks: C1 A1

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